

Y-CAM^{SD} **BLACK**

V3.0

Y-cam Black SD Wireless Internet Video Camera



English

Please read this manual carefully before attempting to install or operate this product. Please retain this manual for your future reference.

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1.0 INTRODUCTION

Thank you for purchasing the **Y-cam Black SD** wireless internet video camera. Please read the following instructions carefully before attempting to install or use the camera. The **Y-cam Black SD** can be accessed remotely, and controlled from any PC/laptop over the Intranet or Internet via a web browser. The user-friendly installation procedure and intuitive web-based interface allow easy integration with your LAN or WiFi network. The **Y-cam Black SD** also comes with motion detection software that can generate alarm triggers via e-mail and by uploading images straight to a website.

Notice

This product may cause interference with other wireless equipment that operate at 2.4GHz ISM band. In the event of interference please turn off one of the devices.

Product Assurance

The 2.4GHz wireless camera meets wireless frequency security standards and recommended indexes during operation. These standards and indexes are certificated by the academic organisation as illustrated in the following paragraphs.

1.1 Approval Information

All our products meet the requirements for approval by FCC and CE, and are authorized to bear the FCC and CE mark.

FCC

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
 - (2) this device must accept any interference received, including interference that may cause undesired operation
- Changes and modification not expressly approved by the manufacturer or registrant of this equipment can void your authority to operate this equipment under Federal Communications Commissions rules.

CE

This product complies with standards including **Low Voltage Device Directive 73/23/EEC**; **EMC Directive 89/336/EEC** and **R&TTE Directive 1999/5/EC**. It passed the subject tests by the authority concerned and is authorized to bear **CE** mark.

1.2 Restrictions

1. DO NOT use this product to violate one's privacy. Monitoring one's activities without consent is illegal and this product is not designed and manufactured for such purpose.
2. DO NOT put this product near any medical equipment. Radio waves might potentially cause breakdown of electrical medical equipment.
3. This product should be placed at least 1 foot away from any heart pacemaker. Radio waves might potentially influence heart pacemaker.
4. DO NOT use this product for any illegal activities. **It is the user's responsibility to ensure that the usage of this camera is of a legal nature.**

1.3 Maintenance

1. Ensure that the **Y-cam Black SD** and its power source have sufficient ventilation;
2. Do not shake, strike or drop the product;
3. Keep the camera dry and dustless and avoid exposing it to direct sunlight;
4. Do not place the product near any magnetic objects;
5. Avoid putting the product in places where there is constant temperature and humidity change;
6. Keep the product away from heat sources;
7. Do not use the camera near aggressive chemicals;
8. Do not use this camera near water;
9. Do not use the camera in the places which are enclosed by metal. The surrounding metal may shield the electromagnetic waves, and result in failure of signal reception;
10. Please obey the local government's environment protection policy;
11. Please turn off the power when left unused;
12. Do not disassemble or attempt to repair the camera; doing so might cause damage to the product.

2.0 MAIN FEATURES

Easy Installation

The **Y-cam Black SD** comes with built-in Wireless (IEEE802.11b/g) capability and a built-in Web Server, therefore there is no need to install a driver. The setup CD-ROM includes the Camera Setup software, User Manual and Quick Installation Guide.

With industry standard automatic configuration-UPnP(Universal Plug and Play), your PC will discover and connect to your camera automatically. Once connected, using a simple Web browser you can see what the camera sees from anywhere in the world!

The **Y-cam Black SD** can be either wall-mounted or ceiling-mounted using the supplied stand. It can also be placed on a desktop using the supplied stand, thus providing a flexible installation solution.

802.11b/g Wireless LAN Connection Available

The **Y-cam Black SD** is designed to not only work with your existing wired network but also with standard 802.11b/g wireless devices, allowing the flexibility to operate the **Y-cam Black SD** wirelessly. The **Y-cam Black SD** utilises SSID filtering and powerful 64/128 bit WEP, WPA and WPA2 encryption to protect you from unauthorised access.

High Compression MPEG-4

The **Y-cam Black SD** features MPEG-4 compression which compresses the video to make transmission faster and more efficient. The MPEG-4 image can be transmitted with a bit rate of 2048kbps at 30 frames per second.

Colour Low Light View

The **Y-cam Black SD** features **Colour Low-Light View Mode**, which automatically adjusts the brightness setting when the room light is dimmed.

Multi-Client Access

The **Y-cam Black SD** allows up to 16 users to view the MPEG-4 image simultaneously. Please note that it is possible that as the number of simultaneously connected users to **Y-cam Black SD** increases, the overall motion performance will decrease.

Audio Transmission

The **Y-cam Black SD** comes with a built-in microphone for audio monitoring as well as video monitoring. Sound captured by the **Y-cam Black SD** is transmitted to the client's PC.

Snapshot and Recording

You can capture a still image of the camera view on your PC and save the image as JPG or BMP format file. You also can record the video and audio captured by the camera on your PC and save as an ASF format file.

Motion Detection Function

The **Y-cam Black SD** can detect changes in the image being monitored. Once a change occurs it will send an email to up to 3 email addresses with snapshot of what triggered the motion attached. The snapshot can also be uploaded to an FTP server. In addition the camera can be configured to send snapshots at regular intervals.

Authentication

An authentication window requires you to enter the user ID and password. Password security can prevent unregistered users from accessing your camera.

MJPEG Streaming

The **Y-cam Black SD** live stream can be viewed using various browsers or operating systems

RTSP MPEG4 Streaming

The **Y-cam Black SD** live stream can be viewed via RealPlayer or QuickTime.

3GPP Streaming

The **Y-cam Black SD** live stream can be viewed using a mobile phone running RealPlayer or QuickTime. The video size is 176x144.

OSD (On Screen Display)

The OSD function can display system name, date and time or a user-defined message in the top left hand corner of video stream.

3.0 Power Adapter

This product conforms with the authenticated AC adapter. The adapter is marked with one or more of the following:



UL Mark
American power
supply authentication



SAA Mark
Australia power
supply authentication



CE Mark
European Union power
supply authentication



PSE Mark
Japan power
supply authentication



GS Mark
German power
supply authentication



CCC Mark
China power
supply authentication

Note:
When using the power adapter, make sure the rating voltage on it is compatible with that of the device to avoid potential damages resulting from incorrect usage of power supply.

4.0 PC System Requirements

The PC (Personal Computer) and the network must meet the following technical specifications for the **Y-cam B**

Processor:	Intel Pentium III, 1GHz or higher
RAM:	256 MB or more
Color Monitor:	800x600 minimum and the latest driver for the Display Adapter
Operating System:	Windows 2000/XP/Vista
Web Browser:	Internet Explorer Version 5.5 or above, DirectX 8.1 or later
Network Protocol:	TCP/IP network protocol installed.
Interface:	10/100 Mbps Ethernet® card/Wireless Network card for your network connection
Other:	CD-ROM Drive, Broadband connection for remote viewing (128kbps upload min.)

5.0 INSTALLATION

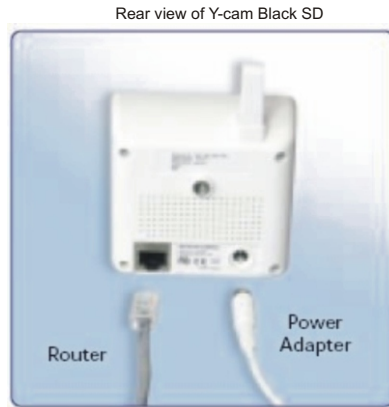
5.1 Connecting the Y-cam Black SD

To a Router

Using a standard Ethernet network cable, connect the **Y-cam Black SD** to your network (depending on your own setup, this may be to your router or switch) *see figure below*

Connect the included power adapter to the power port on the camera and the other end into an electrical socket. *see figure below*

Check that the power indicator is lit on the front of the camera.



Directly to a Computer

You can also connect the **Y-cam Black SD** directly to a computer using a wired or wireless connection. Please note that in this mode you will not be able to view your **Y-cam Black SD** from anywhere else apart from the computer you are currently using.

A) Wired Connection: Connect the **Y-cam Black SD** to your computer using a standard Ethernet network cable. Connect the included power adapter to the power port on the camera and the other end into an electrical socket. *see figure above*

B) Wireless Connection: Connect the included power adapter to the power port on the camera and the other end into an electrical socket. *see figure above*

See page 19 of this manual for details of how to set up a wireless connection to your Y-cam Black SD.

Please note; that in order to connect more than 1 Y-cam Black SD in Adhoc wireless mode you need to manually assign a different IP address to each Y-cam Black SD. See page 12 of this manual for details on how to change the IP address of your Y-cam Black SD.

Check that the power indicator is lit on the front of the camera. (Green for wireless and Red for wired)

Note:

Please handle the power adapter carefully to avoid the risk of accidental electric shock.

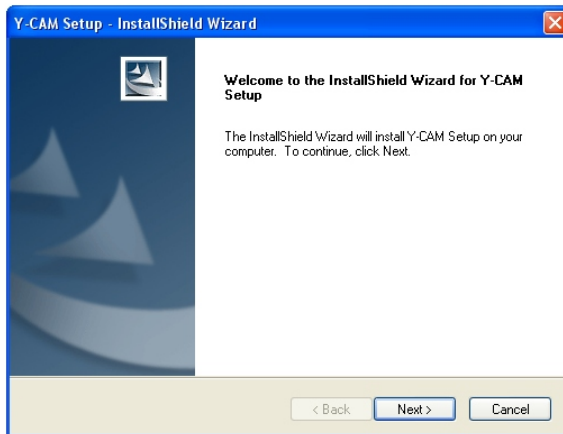
5.2 Y-cam Black SD Software Installation & Usage

The Y-cam Setup utility can easily and quickly detect cameras connected to your local network and list them on the Camera Setup window, also you can use the Y-cam Setup utility to assign an IP address to each camera.

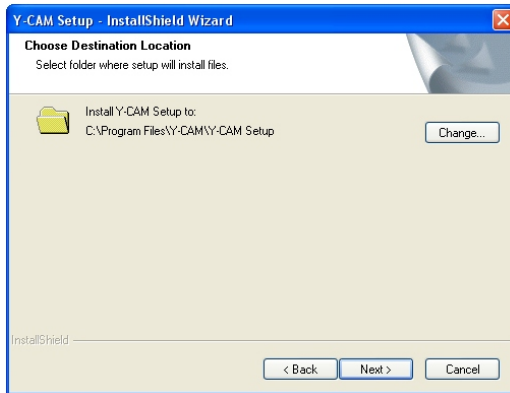
1. Insert the Installation CD into your CD-ROM drive and the installation screen should appear automatically (See image below). If it does not, click "Start" then "Run". In the text field enter "D:\autorun.exe" (if "D:" is the letter of your CD-ROM Drive)



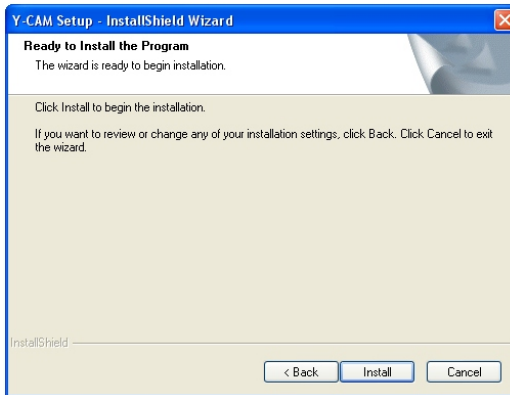
2. Click on "install software" and the following screen will be displayed. Click "Next".



3. If you want to change the default folder click “Change” to replace otherwise click “Next”

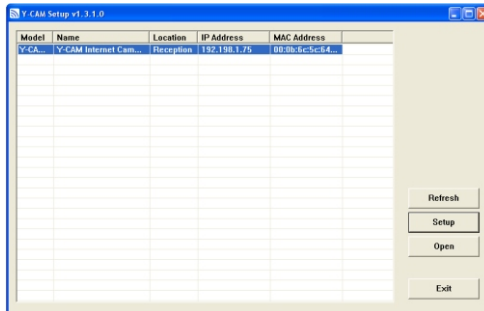


4. Click “Install” to install the Y-cam Setup utility.



5. Click **Finish** to end the installation. You should now find a **Y-cam** icon on the desktop.

6. Double-click the Y-cam icon on the Desktop to launch the program. The Y-cam Setup utility should automatically find your camera if it is correctly connected (See image below).



[Refresh] Click **Refresh** to search for cameras on the local network.

[Setup] Select the required camera and click **Setup** to configure the network settings for the camera.

[Open] Select the required camera and click **Open** to access the camera via a web browser.

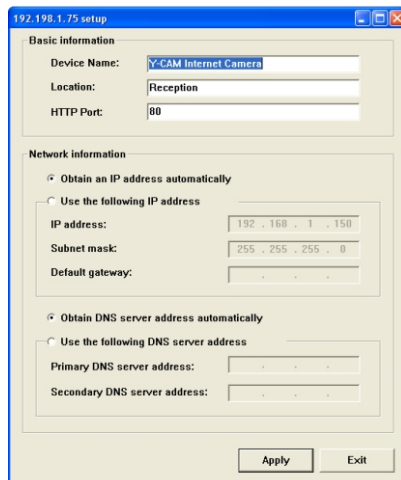
[Exit] Click **Exit** to exit the Camera Setup window.

Note: Select and double click one of the cameras from the Device list, to open the camera view via the web browser.

Assigning an IP address to the Camera with Y-cam Setup utility

1. Launch Camera Setup program to detect cameras on the local network.

2. Click on "Setup" button and the following setup interface will pop up.



3. Enter a unique name for the camera, the location (optional) and leave the default port number as 80. "Obtain an IP address automatically" and "Obtain DNS server address automatically" are selected by default, if you are confident enough to enter your own settings, you can do so by selecting "Use the following IP address" and follow the guidelines on the next page. If however you wish to leave the default settings please skip to section 6.0

7. To obtain the IP addresses specific to your network, click "Start" then "Run" and type "cmd" in the text box and click "Ok". This will bring up the MS-DOS prompt and in this window type "ipconfig/all" and press enter. A screen similar to the one below will be displayed.

```

C:\WINDOWS\system32\cmd.exe
C:\>ipconfig/all

Windows IP Configuration

    Host Name . . . . . : OFFICE
    Primary Dns Suffix . . . . . :
    Node Type . . . . . : Unknown
    IP Routing Enabled. . . . . : No
    WINS Proxy Enabled. . . . . : No

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  :
    Description . . . . . : Intel(R) 82562U 10/100 Network Connection
    Physical Address. . . . . : 00-19-D1-63-3D-50
    Dhcp Enabled. . . . . : Yes
    Autoconfiguration Enabled . . . . : Yes
    IP Address. . . . . : 192.168.1.52
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.1.1
    DHCP Server . . . . . : 10.10.10.1
    DNS Servers . . . . . : 194.106.56.6
                           194.106.33.42
    Lease Obtained. . . . . : 31 May 2007 17:01:18
    Lease Expires . . . . . : 31 May 2007 19:01:18

C:\>

```

8. Take note of the following:
- i) IP Address
 - ii) Subnet Mask
 - iii) Default Gateway
 - iv) DNS Servers (Both numbers with the first being the primary DNS server and the second being the secondary DNS server)

9. Enter the details noted in step 8 into the relevant fields.

Note: The default IP address of the camera is 192.168.1.150 This can be changed to any IP address on your IP range. For example if the IP address of your PC is 192.198.1.52 then the IP address of your camera should be unique and on the same subnet, i.e. 192.198.1.X where X is any number between 1 and 255 except 52.

Ensure the IP address you chose is not the same as other network devices on your network as this will result in conflict and may cause the device to not to work properly.

10. Once you've entered all the details click "Apply" then "Exit".

6.0 Y-cam Black SD Live View

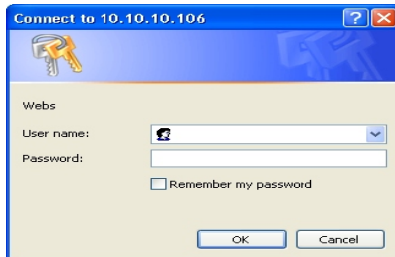
You can select one of the three ways to view video from the **Y-cam Black SD**;

1. Input the assigned IP address of the **Y-cam Black SD** in the Web Browser address bar (followed by a colon and the port number if it is not 80)
2. Double click on the Y-cam Setup utility icon on the Desktop, then select the camera and click "Open".
3. Click "My Network Places" in the Windows "Start" menu or "Control Panel" then double click on the icon with the camera name you wish to open. (Only if UPnP is enabled)



Notes:

Through the above home page you can select the **live view** which will allow you to access the live video transmitted by the camera, or **settings** to configure the **Y-cam Black SD**. In both cases you will be asked to enter your **User Name** and **Password**. The default User Name is **admin** and the default password is **1234**. It is recommended to change these in order to avoid unauthorised access to the camera.



The general users assigned by the administrator are not allowed to enter the system settings interface. Please see **User Management** section on page 28 for further details.

Operating Bar

Upon verification of the username and password, the camera image will load. Please note that when using the camera for the first time you will be prompted to install an ActiveX Control. Please follow the on-screen instructions to download and install this control.

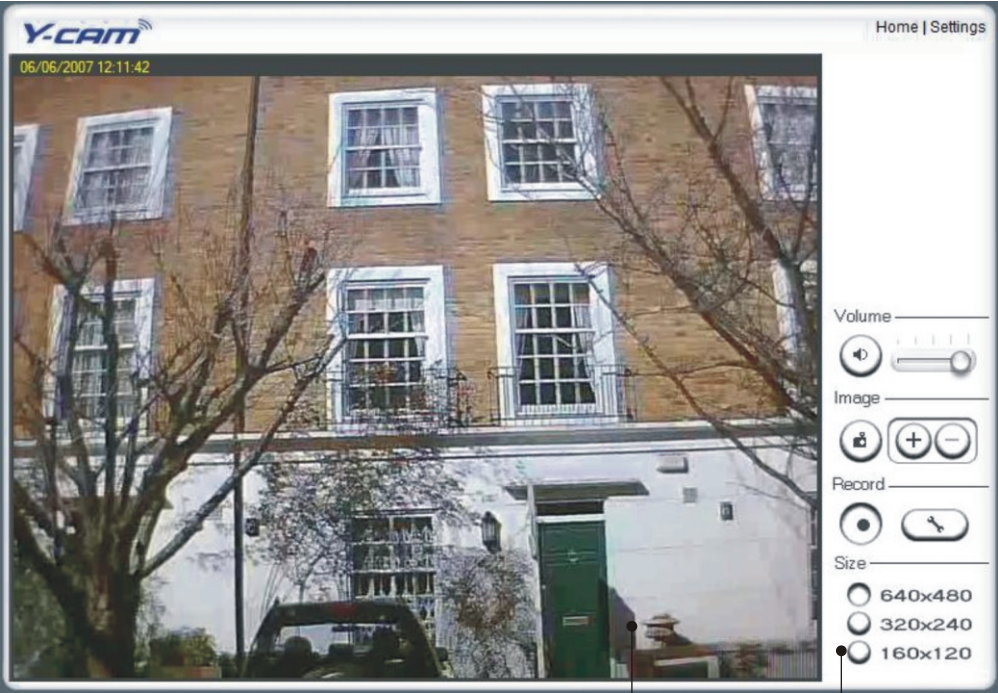


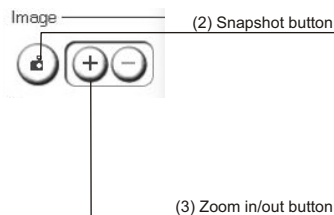
Image Field

Operating Bar



(1) Mute

- 1.1) Click **Mute** button to mute the audio.
- 1.2) Slide the slide block horizontally to adjust volume.

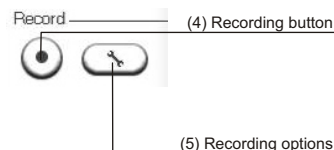


(2) Snapshot

Press the **Snapshot** button to capture a still image of the camera view.
Click **Save** to store the snapshot on your computer, the file is automatically assigned the data & time of the snapshot.
Press **Cancel** to exit.

(3) Zoom

Click on **+** button and the cursor turns to a magnifier. Move the magnifier to the desired location and click on an image area.
Press **-** button to return to the normal view.

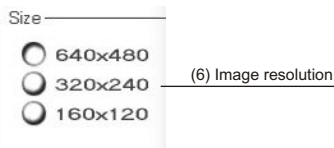


(4) Recording:

Press the **Record** button to record video and audio (if enabled). This will save the file in ASF format on your PC.

(5) Recording options:

Click this button to set the recording parameters. You can set record path, video file size and select whether to start recording automatically when motion is detected and the length of the recording in seconds.



(6) Image size:

There are three Image Size options: [640x480], [320x240] and [160x120]. Please note that this only changes the image size being viewed not the image size the camera is transmitting and/or recording. To change the transmitting/recording image size please refer to section 7.1 in this manual.

7.0 Y-cam Black SD Settings

1. Click on **settings** from the home page. When connecting the **Y-cam Black SD** for the first time or after resetting it to its default settings, the setup interface start page below will load. It is recommend that you change the **admin** password in order to avoid unauthorised access to the camera. To do this follow the instructions by clicking on the underlined link "here" to access administrator password editing page.

here.' On the right side, there is a sidebar menu with expandable sections: Camera (Camera Setup, Stream Setup, OSD Setup, Night Vision Setup), Network, Alarm, Alarm Server, SD Functions, and Tools." data-bbox="41 136 952 354"/>

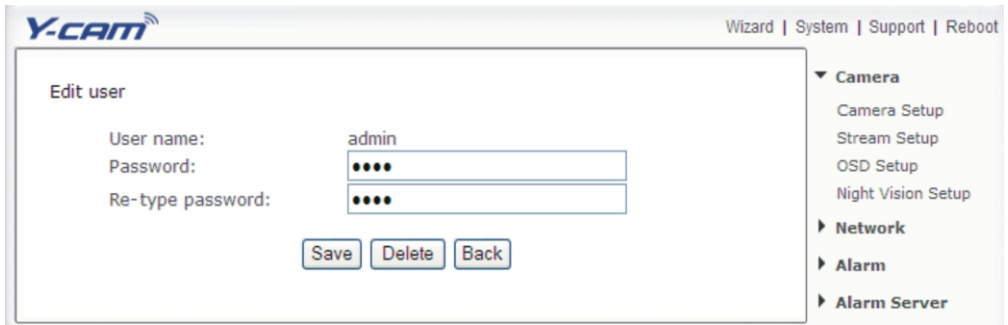
Y-CAM Wizard | System | Support | Reboot

CAMERA SETTINGS

Please note the default administrators password has not been changed. For security reasons it is recommend that you change this by clicking [here](#).

- ▼ **Camera**
 - Camera Setup
 - Stream Setup
 - OSD Setup
 - Night Vision Setup
- ▶ **Network**
- ▶ **Alarm**
- ▶ **Alarm Server**
- ▶ **SD Functions**
- ▶ **Tools**

2. Type the password in both fields then click **Save**. Please take note of the password. If you forget the password, the camera will have to be reset to its default settings in order to gain access to the settings page and this will also reset all other settings you may have changed.



Y-CAM Wizard | System | Support | Reboot

Edit user

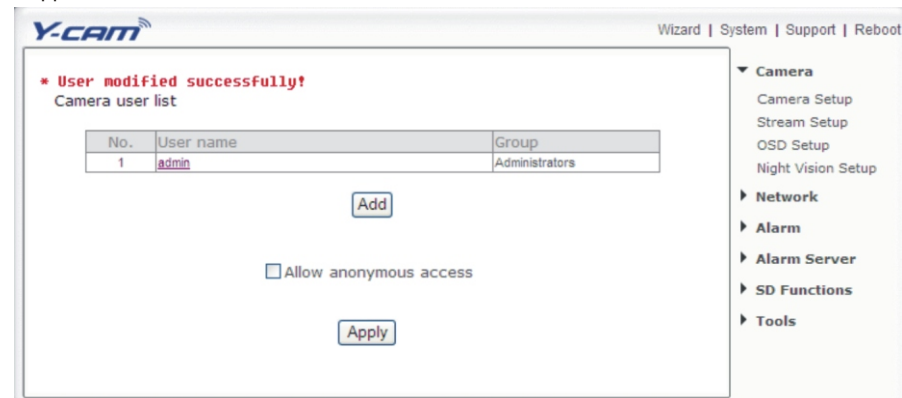
User name: admin

Password: [masked]

Re-type password: [masked]

- ▼ **Camera**
 - Camera Setup
 - Stream Setup
 - OSD Setup
 - Night Vision Setup
- ▶ **Network**
- ▶ **Alarm**
- ▶ **Alarm Server**

3. You are required to login again with the new password. After successful login, the following page will appear.



Y-CAM Wizard | System | Support | Reboot

* User modified successfully!

Camera user list

No.	User name	Group
1	admin	Administrators

☐ Allow anonymous access

- ▼ **Camera**
 - Camera Setup
 - Stream Setup
 - OSD Setup
 - Night Vision Setup
- ▶ **Network**
- ▶ **Alarm**
- ▶ **Alarm Server**
- ▶ **SD Functions**
- ▶ **Tools**

7.1 Camera

7.11 Camera setup

From the home page click **settings** and enter the administrator user name and password. Click on **Camera Setup** under the title **Camera** to change the image and audio parameters of the camera.

Y-CAM Wizard | System | Support | Reboot

Camera setup

Camera:

Light frequency: 50Hz

Image rotation: ☐ On ☒ Off

Moonlight mode: ☒ Auto ☐ On ☐ Off

Power LED light: ☒ On ☐ Off

Show FPS in ActiveX: ☒ On ☐ Off

Microphone: ☒ Enable ☐ Disable

Volume: 10

G.726 bit rate: 16 kbps

AMR bit rate: 5.9 kbps

Apply

Camera

- Camera Setup
- Stream Setup
- OSD Setup
- Night Vision Setup

Network

Alarm

Alarm Server

Tools

[Frequency] Two options: 50Hz & 60Hz. Set according to the mains frequency in the country of use.
For UK this would be 50Hz.

[Image rotation] Display images upside down.

[Moonlight Mode] Turns the Moonlight feature on or off. The Moonlight feature superimposes frames in order to brighten the image being viewed. This is also known as frame integration.

[Power LED light] Turn the Y-cam Black SD front LED On or Off during normal operation.

[Show FPS in ActiveX] Show FPS in ActiveX Bar.

[Microphone] Turn on/off the built-in microphone.

[Mic volume] Adjusts the sensitivity of the microphone from 0~14 where 0 is the lowest.

[Audio bit rate] Four options: 16, 24, 32, 40(kbps). Determines the quality of the audio being transmitted.

Click **Apply** to confirm your settings.

7.1 Camera

7.12 Stream Setup

Click on **Stream Setup** under the title **Camera** to change the image parameters of the camera.

The screenshot shows the 'Y-cam' software interface. The main window is titled 'Stream setup' and contains three sections: 'Primary stream', 'Secondary stream', and 'Mobile stream'. Each section has a list of settings: Image size, Frame rate, MPEG4 bit rate, MJPEG quality, Snapshot quality, Audio, and RTSP authentication. The 'Primary stream' section is active, showing settings like 640x480 resolution, 30 fps, 2048 kbps, and 50 MJPEG quality. The 'Secondary stream' and 'Mobile stream' sections are also visible but not active. The right sidebar shows a tree view with 'Camera' expanded, containing 'Camera Setup', 'Stream Setup', and 'OSD Setup'.

There are 3 video streams available. The Primary and Secondary stream can be configured separately to different resolutions in order to access different video streams without the need to change any settings. The Mobile stream is similar to the first two streams but is purely for mobile viewing and has a fixed resolution.

[Image size] Three image resolutions available: 640 x 480(VGA), 320 x 240(QVGA), 160 x 120.

[Frame rate] Twelve options: 1/2/3/4/5/6/8/10/15/20/25/30 frames per second (fps).

The frame rate is automatically determined by the camera and this depends on the network bandwidth available at the time. This frame ratesetting imposes the maximum frame rate that the camera will transmit.

[Bit rate] Eight options: 64, 128, 256, 512, 768, 1024, 1536, 2048 (kbps).

The above three settings determine the image quality, however higher bit rates require greater bandwidth. Please select the appropriate settings according to your connection speed and network traffic. If you are experiencing jerky video it may be necessary to decrease the bit rate.

[RTSP authentication] Enable or disable MPEG4 RTSP authentication. RealPlayer can be used to view the live stream from the **Y-cam Black SD**, but RealPlayer does not support authentication, so the authentication of MPEG4 RTSP should be disabled. This however may expose the camera to unauthorised access. QuickTime Player, on the other hand, supports authentication and can be used to view the live stream.

[MJPEG Quality] The quality of the picture on a mobile or on a non-internet Explorer Browser. It can be from 20~100

Note: Clicking on the name of the stream will display the various paths to the particular video stream for both internal and external access.

7.1 Camera

7.13 OSD setup

From the home page click **settings** and enter the administrator user name and password. Click on **OSD Setup** under the title **Camera** to change the on screen display parameters of the camera.

The screenshot shows the Y-CAM web interface for OSD Setup. The top navigation bar includes 'Wizard | System | Support | Reboot'. On the right, a sidebar menu lists 'Camera' (expanded) with sub-items: 'Camera Setup', 'Stream Setup', 'OSD Setup' (selected), and 'Night Vision Setup'. Below this are 'Network', 'Alarm', 'Alarm Server', 'SD Functions', and 'Tools'. The main content area is titled 'On Screen Display Setup'. It contains two sections: 'OSD display:' with 'Enable' (selected) and 'Disable' radio buttons, and 'Transparent:' with 'Enable' (selected) and 'Disable' radio buttons. Under 'Transparent:', there are four radio button options: 'Display date and time' (selected), 'Display system name', 'Display the text below', and 'Display the text below with date and time'. Below these options is a text input field containing 'YCAM Internet Camera'. At the bottom center is an 'Apply' button.

[OSD] Enable or Disable the On Screen Display.

[Transparent] Select whether OSD should have a transparent background or not.

[Display date and time] Set the ODS to display the Date and Time of the camera. Please note that this function will simply display the date and time that has been programmed in the camera and therefore the time and date may be incorrect unless the camera is synchronised to a time and date server on the internet. (See section 7.63 of this manual for further details)

[Display system name] Set the ODS to display the System Name of the camera. The system name can be modified from the System Identity page. (See section 7.61 of this manual for further details)

[Display the text below] Set the ODS to display specific text. Use the text field to input the desired text.

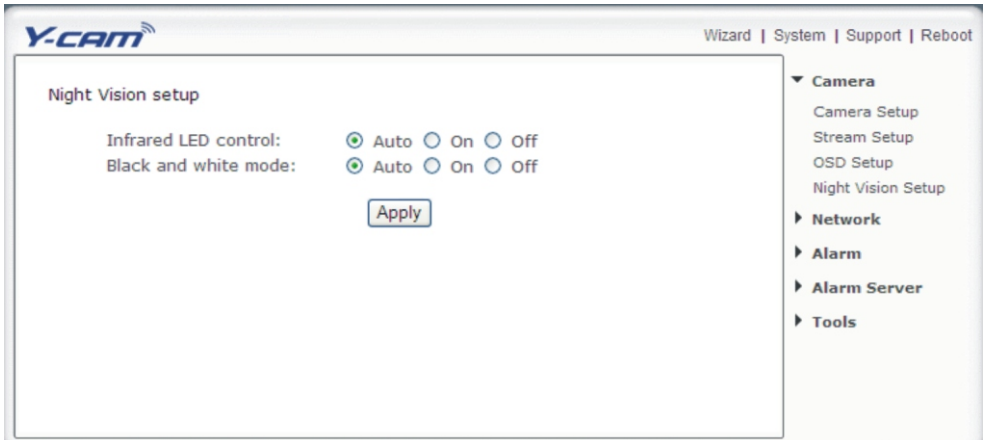
[Display the text below with date and time] Set the ODS to display specific text with date and time. Use the text field to input the desired text.

Click **Apply** to confirm your settings.

7.1 Camera cont..

7.14 Night Vision Setup

The **Y-cam Black SD** utilizes 30 infrared LEDs to provide high levels of light in dark environments. The intelligent photosensitive components can automatically turn on the infrared LEDs in low light conditions or you can manually turn them on.



Y-CAM

Wizard | System | Support | Reboot

Night Vision setup

Infrared LED control: ☒ Auto ☐ On ☐ Off

Black and white mode: ☒ Auto ☐ On ☐ Off

Apply

▼ Camera

- Camera Setup
- Stream Setup
- OSD Setup
- Night Vision Setup

► Network

► Alarm

► Alarm Server

► Tools

[Infrared LED Control] “Auto” switches on the IR LEDs automatically when there isn’t enough light to produce a good quality image. “On” turns the IR LEDs on and ignores the light level in the room. This also switches the **Y-cam Black SD** to Black and White mode. When “Off” is selected the IR LEDs are kept in the off state even if the light level of the room is too dark to produce a good quality image.

[Black and whitet mode] “Auto” switches the video from colour to monochrome when the IR LEDs are turned on. “On” switches the video to monochrome irrelevant of the status of the IR LEDs. “Off” forces the Y-cam Black SD to stay in colour mode even when the IR LEDs are on.

7.21 Wireless Setup (Infrastructure)

7.21 The Y-cam Black SD connects to the wireless network through IEEE802.11b/g standard and features WEP and WPA Encryption.

Y-CAM Wizard | System | Support | Reboot

Wireless setup

SSID: BTBusinessHub-136 Search...

Mode: Infrastructure (select Infrastructure mode if using wireless router.)

Security mode: WPA-PSK

Encryption type: TKIP

WPA key:

Re-type WPA key:

Apply Test

Navigation: Camera, Network (Wireless Setup, TCP/IP Setup, PPPoE Setup, DDNS Setup, UPNP Setup), Alarm, Alarm Server, Tools

[SSID] Type the ID of the wireless network you want to connect to using up to 32 ASCII characters or click **Search** to search for available networks.

[Mode] Infrastructure mode and Adhoc mode

Adhoc Mode: Select **Adhoc** mode when the camera is directly connected to your computer.

Infrastructure Mode: Select **Infrastructure** mode when the camera is connected via an access point or router.

[Security mode] Select the type of security mode that your wireless network is using.

WEP64, WEP128, WPA-PSK or WPA2-PSK Example below shows WEP128bit encryption.

Security mode: WEP128bit

Authentication: Auto

WEP key type: ASCII

WEP key Index: 1

WEP key:

Re-type WEP key:

[Authentication] Select the type of authentication that your router requires.

Key type] Select the WEP key type. Either in hexadecimal (Hex) or ASCII characters.

Note: most routers provide WEP keys in Hex format.

[WEP key] Type the encryption key that matches that of your router.

Click **Apply** to save changes.

Click on **Test** to confirm that the wireless settings are correct.

Note: These settings have to match those of your access point or router. Please consult your access point or router manual on how to verify or modify these settings.

7.2 Wireless Setup (Adhoc)

7.22 The Y-cam Black SD can also connect directly to a computer that has wireless network capability.

The screenshot shows the 'Wireless setup' window for the Y-cam Black SD. The window has a title bar with the Y-cam logo and a menu bar with 'Wizard | System | Support | Reboot'. The main area is titled 'Wireless setup' and contains the following fields and buttons:

- SSID: A text box containing 'BTBusinessHub-136' and a 'Search...' button.
- Mode: A dropdown menu set to 'Adhoc'. Below it is a note: '(select Infrastructure mode if using wireless router.)'
- Security mode: A dropdown menu set to 'Off'.
- Buttons: 'Apply' and 'Test'.

On the right side, there is a sidebar with a tree view showing the following categories:

- Camera
- Network
 - Wireless Setup
 - TCP/IP Setup
 - PPPoE Setup
 - DDNS Setup
 - UPNP Setup
- Alarm
- Alarm Server
- Tools

In order to view the Y-cam Black SD directly from your computer you first need to configure the wireless device in your computer according to the Y-cam Black SD settings above. To do this follow the instructions below:

1. On your computer click on "Start" then "Control Panel".
2. Double click the "Network connections" icon then double click on the Wireless network connection icon.
3. Click "View Wireless Networks" and select "ycam" from the list. *(If you do not see an the Y-cam connection, make sure the camera is powered on and has the above settings then click "Refresh network list" on your computer)*
4. Click "Connect". You are now connected to the Y-cam Black SD via a direct (Adhoc) connection.

Note: This method of connecting to the Y-cam Black SD does not offer any wireless security. Make sure you change the "Security mode" on both the Y-cam Black SD and your computer for a more secure connection.

7.23 TCP/IP Setup

The **Y-cam Black SD** is set up to obtain the IP address automatically (DHCP) by default. Should you may wish assign the IP address manually, use the **TCP/IP Setup** page to enter the address details.

Obtain an IP address automatically(DHCP):

If your network supports a DHCP server (eg. router) select this option to have the IP address is assigned automatically.

If you select **Obtain an IP address automatically** you should select **Obtain a DNS Server address automatically**.

Use the following IP address:

Select this option when a fixed IP is required.

[IP address] Type the IP address of your camera

[Subnet mask] Type the subnet mask

[Default gateway] Type the default gateway

Always use the following DNS server address:

[Primary DNS IP address] Type the IP address of the primary DNS server

[Secondary DNS IP address] Type the IP address of the secondary DNS server, if necessary

HTTP port number

The default HTTP port number is 80.

[RTP port range] In order to view video over RTSP the router should be setup to forward port numbers 30000 to 30100 to the camera's IP address using UDP with the internal port range of 30000 to 30100. Refer to your router manual for further details.

Note: To obtain the addresses required please follow the procedure on page 13 of this manual.

7.24 PPPoE Setup

The **Y-cam Black SD** can be installed without a PC on the network. Some XDSL services use PPPoE (Point-to-Point Protocol over Ethernet).

The screenshot shows the Y-cam web interface. At the top, there's a navigation bar with 'Wizard | System | Support | Reboot'. The main content area is titled 'PPPoE setup'. It features a 'PPPoE dial-up:' section with 'Enable' (selected) and 'Disable' radio buttons. Below this are four text input fields labeled 'Service name:', 'User name:', 'Password:', and 'Re-type password:'. An 'Apply' button is located at the bottom of the form. On the right side, there's a sidebar with a tree view containing 'Camera', 'Network' (expanded), 'Alarm', 'Alarm Server', and 'Tools'. Under 'Network', the following options are listed: 'Wireless Setup', 'TCP/IP Setup', 'PPPoE Setup' (highlighted), 'DDNS Setup', and 'UPNP Setup'.

[PPPoE dial-up] Enable or disable PPPoE connection.

[Service name] Either an ISP name or a class of services that is configured on the PPPoE server. This field may be left empty.

[User name] Type the user name.

[Password] Type the password.

[Re-type password] Re-confirm the password.

Click **Apply** to confirm your settings.

7.25 DDNS Setup

Dynamic DNS (DDNS) is simply a way of using a static hostname to connect to a dynamic IP address. When connected to your ISP, you are assigned a temporary IP address. DDNS services keep track of your IP address and route your **Domain name** to that address when you wish to connect to the camera from a remote location.

The screenshot shows the 'Y-CAM' web interface for DDNS setup. The title bar includes 'Y-CAM' and navigation links: 'Wizard | System | Support | Reboot'. The main content area is titled 'DDNS setup'. It features a 'DDNS:' section with 'Enable' (selected) and 'Disable' radio buttons. Below this are input fields for 'Service provider:' (a dropdown menu showing 'dtdns.com' and a 'Register' link), 'Host name:', 'User name:', 'Password:', and 'Re-type password:'. An 'Apply' button is at the bottom. A right-hand sidebar contains a menu with categories: 'Camera', 'Network' (expanded, showing 'Wireless Setup', 'TCP/IP Setup', 'PPPoE Setup', 'DDNS Setup', and 'UPNP Setup'), 'Alarm', 'Alarm Server', and 'Tools'.

[DDNS] Enable or disable DDNS connection.

[Service Provider] Select a provider from the drop down list then click “Register”. This will take you to the service provider’s website where you can register the host name. Please follow the instructions on the provider’s site, then return to this page to enter the details.

[Host Name] Enter the host name you have registered. (Eg. camera1.dtdns.net)

[User Name] Enter the user name for the account you registered with the service provider.

[Password] Enter the password for the account you registered with the service provider.

Click “**Apply**” to save the settings.

You should now be able to access the camera by typing the host name you registered in the form of Internet URL in your web browser (Eg. Http://camera1.dtdns.net:8150) To obtain the exact name and port number click on “**System**” in the top right hand corner of the page and scroll to the bottom to find your complete “**Internet URL**” (See Section 7.72 of this manual for further details).

Note: If you have just registered your DDNS account and/or Host Name, it may take a while until you account is activated and registered on the internet.

7.26 UPnP Setup

Y-cam supports UPnP which is enabled by default. This function requires a Windows XP/Vista operating system. It is a quick way to discover the **Y-cam Black SD** on your network. Please make sure that the UPnP function is enabled on your PC.

Y-CAM Wizard | System | Support | Reboot

UPNP setup

UPNP: ☒ Enable ☐ Disable

Gateway HTTP/RTSP port forwarding: ☒ Enable ☐ Disable

External HTTP/RTSP port range: 8152 -- 8152

Gateway RTP port forwarding: ☒ Enable ☐ Disable

External RTP port range: 30000 -- 30200

Note: RTP port range can't be changed here, you should change it in TCP/IP setup page.

Apply

Camera

Network

- Wireless Setup
- TCP/IP Setup
- PPPoE Setup
- DDNS Setup
- UPNP Setup

Alarm

Alarm Server

Tools

[UPnP] Enable or disable the UPnP function.

[Router external port] Using this port, automatically adds a port forwarding rule to a router via UPnP protocol. Please note that not all routers support this function. Refer to your router manual for further details.

If select UPNP Enable, and set port range is 8150 to 8350, camera will ask router to add a port forwarding rule automatically. In this rule, the internal port is camera default port 80, the external port is 8150, IP address is camera's IP. Through this setting, users can visit the camera from Internet through the router with this URL <http://routeripaddress:8150>.

If there are several cameras in Local Network, the first one to be connected will use 8150 as external port, and second one will use 8151, third one use 8152, etc. Every camera will remember its port, it will preferentially use this port in next power on.

Click **System** at the top right of **Settings** page to show the **System information** (see Section 10.2 of this manual for further details)

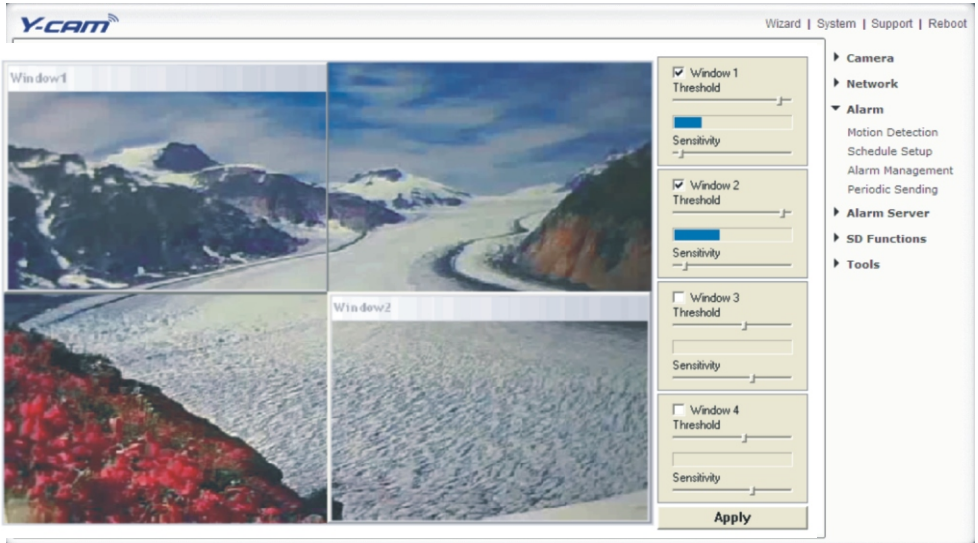
Click **Apply** to confirm and save your setting.

The URL to view the camera using RTSP can be obtained from the stream setup page(see Section 7.12 of this manual for further details)

7.3 ALARM

7.31 Motion Detection

Motion Detection can trigger an alarm that sends images via e-mail or FTP (File Transfer Protocol). You can set up to four different Motion Detection windows.

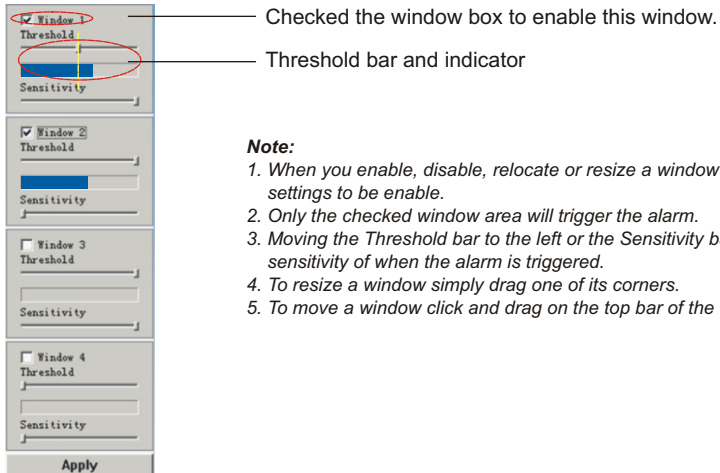


[Window] Check this box to enable the window.

[Threshold] Set the threshold bar to the amount of motion required to trigger the alarm.

[Sensitivity] Set the measurable difference between two sequential images that would indicate motion.

Note: Sliding the **Sensitivity** bar to the left will decrease the sensitivity of the motion detection i.e. 'More' movement is required to trigger the alarm.



Note:

1. When you enable, disable, relocate or resize a window click **Apply** for the new settings to be enable.
2. Only the checked window area will trigger the alarm.
3. Moving the Threshold bar to the left or the Sensitivity bar to the right will increase the sensitivity of when the alarm is triggered.
4. To resize a window simply drag one of its corners.
5. To move a window click and drag on the top bar of the window (window name).

When making any changes please click "Apply" before testing since otherwise the old settings would still Active.

7.3 Alarm

7.3.2 Schedule Setup

Sending images via email or FTP can be setup for a specific time over the week.

Y-CAM Wizard | System | Support | Reboot

Schedule setup

Schedule ID: 1

☒ Every day Always Start time 0 : 0 End time 24 : 0

Apply

- ▶ Camera
- ▶ Network
- ▼ Alarm
 - Motion Detection
 - Schedule Setup
 - Alarm Management
 - Periodic Sending
- ▶ Alarm Server
- ▶ SD Functions
- ▶ Tools

[Schedule ID] Select the ID, you can save up to four schedules and use them for different purposes .

[Everyday] Activate the alarm daily on specified times. Un-ticking this box will display the days of the week. (See image below)

[Always] Always activate the alarm.

[Range] Activates the alarm on specified times

[Except] Deactivates the alarm during time specified

[Start time] Starting time for the alarm.

[End time] Ending time for the alarm.

Click **Apply** to confirm your settings.

Y-CAM Wizard | System | Support | Reboot

Schedule setup

Schedule ID: 1

☐ Every day Always Start time 0 : 0 End time 24 : 0

☐ Sunday Range Start time 0 : 0 End time 24 : 0

☐ Monday Range Start time 0 : 0 End time 24 : 0

☐ Tuesday Range Start time 0 : 0 End time 24 : 0

☐ Wednesday Range Start time 0 : 0 End time 24 : 0

☐ Thursday Range Start time 0 : 0 End time 24 : 0

☐ Friday Range Start time 0 : 0 End time 24 : 0

☐ Saturday Range Start time 0 : 0 End time 24 : 0

Apply

- ▶ Camera
- ▶ Network
- ▼ Alarm
 - Motion Detection
 - Schedule Setup
 - Alarm Management
 - Periodic Sending
- ▶ Alarm Server
- ▶ SD Functions
- ▶ Tools

7.33 Alarm Management

Y-CAM Wizard | System | Support | Reboot

Alarm Management setup

Alarm mode: ☒ Arm ☐ Disarm

FTP alarm management: ☒ Enable ☐ Disable

Trigger time: 5 seconds (1-20)

Trigger FPS: 1 Images/sec (1-5)

FTP server ID: 1 [Setting](#)

Remote path:

Snapshot from: Primary stream

Image file name: M

Suffix of file name: ☒ Date time ☐ S/N ☐ None

Effective period: ☒ Always ☐ Schedule 1 [Setting](#)

e-Mail alarm management: ☐ Enable ☒ Disable

[Apply](#)

[Alarm Mode] Activate/ Deactivates the motion detection alarm.

[FTP Alarm Management] Enable/Disable uploading of images on motion detection to an FTP Server.

[Trigger Time] The number of seconds that the camera should keep sending images when an alarm is triggered.

[Trigger FPS] The number of frames per seconds that the camera should keep sending images at when an alarm is triggered.

[FTP Server ID] Select the FTP Server number from the list. (See section 8.5 of this manual for further details)

[Remote path] Path where to save the image file on the FTP server.

[Snapshot From] Select the stream from which it should get the snapshot. (See section 7.12 of this manual for further details on how to setup the various video streams)

[Image file name] A name for the Image.

[Suffix of file name] Image file name suffix can be either date and time or a sequence number or null.

[Effective Period]

[Always] Always trigger the alarm upon motion detection

[Schedule] Trigger the alarm according to the schedule (See section 7.32 of this manual for further details)

Click **Apply** to confirm your settings.

7.33 Alarm Management

Y-CAM

Wizard | System | Support | Reboot

Alarm Management setup

Alarm mode:

☒ Arm ☐ Disarm

FTP alarm management:

☐ Enable ☒ Disable

e-Mail alarm management:

☒ Enable ☐ Disable

Trigger time:

seconds (1-20)

Trigger FPS:

Images/sec (1-5)

e-Mail server ID:

[Setting](#)

File attachment:

☒ On ☐ Off

Snapshot from:

Image file name:

Suffix of file name:

☒ Date time ☐ Sequence number

Effective period:

☒ Always ☐ Schedule [Setting](#)

[Apply](#)

▶ Camera

▶ Network

▼ Alarm

Motion Detection

Schedule Setup

Alarm Management

Periodic Sending

▶ Alarm Server

▶ SD Functions

▶ Tools

[Email Alarm Management] Enable/Disable sending of e-mails on motion detection.

[Trigger Time] The number of seconds that the camera should keep sending images when an alarm is triggered.

[Trigger FPS] The number of frames per seconds that the camera should keep sending images at when an alarm is triggered.

[e-Mail Server ID] Select the e-mail server number from the list. (See section 8.6 of this manual for further details)

[File attachment] Select if you would like a snapshot of the camera view attached to the e-mail.

[Snapshot From] Select the stream from which it should get the snapshot. (See section 7.12 of this manual for further details on how to setup the various video streams)

[Image file name] Any name for the Image.

[Suffix of file name] Image file name suffix can be either date and time or a sequence number.

[Effective Period]

[Always] Always trigger the alarm upon motion detection

[Schedule] Trigger the alarm according to the schedule (See section 7.32 of this manual for further details)

Click **Apply** to confirm your settings.

7.34 Periodic Sending

Y-CAM

Wizard | System | Support | Reboot

Periodic sending setup

FTP periodic sending: ☒ Enable ☐ Disable

Interval time: 0 H 1 M 0 S 0 mS
(MIN: 200 msec. MAX: 24 hour)

FTP server ID: 1 [Setting](#)

Remote path:

Snapshot from: Primary stream [v](#)

Image file name: P

Suffix of file name: ☒ Date time ☐ SN ☐ None

Effective period: ☒ Always ☐ Schedule 1 [Setting](#)

e-Mail periodic sending: ☐ Enable ☒ Disable

[Apply](#)

- ▶ Camera
- ▶ Network
- ▼ Alarm
 - Motion Detection
 - Schedule Setup
 - Alarm Management
 - Periodic Sending
- ▶ Alarm Server
- ▶ SD Functions
- ▶ Tools

[FTP Periodic Sending] Enable/Disable uploading of images at periodic intervals to an FTP server.

[Interval Time] Time interval between uploads.

[FTP Server ID] Select the FTP Server number from the list. (See section 8.5 of this manual for further details)

[Remote path] Path where to save the image file on the FTP server.

[Snapshot From] Select the stream from which it should get the snapshot. (See section 7.12 of this manual for further details on how to setup the various video streams)

[Image file name] A name for the Image.

[Suffix of file name] Image file name suffix can be either date and time, a sequence number or null.

[Effective Period]

[Always] Always trigger the alarm upon motion detection

[Schedule] Trigger the alarm according to the schedule (See section 7.32 of this manual for further details)

Click **Apply** to confirm your settings.

7.34 Periodic Sending

Y-CAM

Wizard | System | Support | Reboot

Periodic sending setup

FTP periodic sending:

☐ Enable ☒ Disable

e-Mail periodic sending:

☒ Enable ☐ Disable

Interval time:

0

 H

1

 M

0

 S

0

 mS
(MIN: 200 msec. MAX: 24 hour)

e-Mail server ID:

1

Setting

File attachment:

☒ On ☐ Off

Snapshot from:

Primary stream

Image file name:

P

Suffix of file name:

☒ Date time ☐ Sequence number

Effective period:

☒ Always ☐ Schedule

1

Setting

Apply

▶ Camera

▶ Network

▼ Alarm

Motion Detection

Schedule Setup

Alarm Management

Periodic Sending

▶ Alarm Server

▶ SD Functions

▶ Tools

[Email Periodic Sending] Enable/Disable sending of e-mails at periodic intervals

[Interval Time] Time interval between e-mails.

[e-Mail Server ID] Select the e-mail server number from the list. (See section 8.6 of this manual for further details)

[File attachment] Select if you would like a snapshot of the camera view attached to the e-mail.

[Snapshot From] Select the stream from which it should get the snapshot. (See section 7.12 of this manual for further details on how to setup the various video streams)

[Image file name] Any name for the Image.

[Image file name] A name for the Image.

[Suffix of file name] Image file name suffix can be either date and time or a sequence number.

[Effective Period]

[Always] Always trigger the alarm upon motion detection

[Schedule] Trigger the alarm according to the schedule (See section 7.32 of this manual for further details)

Click **Apply** to confirm your settings

7.4 Alarm Server

7.41 FTP Server

The Y-cam Black SD can upload an image to an FTP server upon receiving an alarm from the motion detector window or at specific time intervals.

FTP is a commonly used protocol for exchanging files over any network or internet and there are a number of FTP providers which will allow you to upload the images free of charge.

The Y-cam can be configured with 4 different FTP servers. These servers can be individually connected to either upload on motion detection or upload periodically. (See section 8.3 and section 8.4 of this manual for further details)

Y-CAM Wizard | System | Support | Reboot

FTP Server setup

FTP server ID: ▼

FTP server name:

FTP server port:

Anonymous: ☐ Yes ☒ No

User name:

Password:

Re-type password:

Passive mode: ☒ On ☐ Off

Keep alive: Seconds (0-99999 0:always keep alive)

▶ Camera

▶ Network

▶ Alarm

▼ Alarm Server

FTP Server

e-Mail Server

▶ Tools

[FTP Server ID] Select the ID, you can connect to up to four FTP Servers .

[FTP server name] Type the name or IP address of the FTP server.

[FTP server port] The port number of the FTP server (default is 21).

[Anonymous] Enable or disable anonymous login.

[User name] Type your user name

[Password] Type your password

[Re-type password] Re-type your password

[Passive mode] Switch passive mode on or off.

[Keep Alive] Time period for which camera should be connected to the FTP server. The camera will keep the connection with the server for the specified number of seconds after the last upload.

Click **Apply** to confirm your settings.

7.42 E-mail Servers

The **Y-cam Black SD** can be configured to send an E-mail when the **Motion Detection** alarm is triggered or

It can send a snapshot after specified intervals.

The Y-cam can be configured with 4 different E-mail servers. These servers can be individually connected to either send on motion detection or send periodically. (See section 8.3 and section 8.4 of this manual for further details)

Y-CAM Wizard | System | Support | Reboot

e-Mail Server setup

e-Mail server ID: 1

SMTP server name:

SMTP server port: 25

Secure SSL connection: ☐ Yes ☒ No

Authentication: ☒ Yes ☐ No

User name:

Password:

Re-type password:

Sender mail address:

Receiver mail address:

Subject: Motion detected by Y-cam

Message:

Apply

► Camera
► Network
▼ Alarm
 Alarm Server
 FTP Server
 e-Mail Server
► Tools

[e-Mail server ID] Select the server ID. You can **set** up to four email servers.

[SMTP server name] Type the name or IP address of the SMTP server you want to use for sending the e-Mails. Please note that some networks do not allow e-mail relaying. Check with your system administrator or Internet service provider for more details.

[SMTP server port] The port number of the e-mail server (default is 25).

[Secure SSL Connection] Select whether your SMPT server requires an SSL connection.

[Authentication] Select whether authentication is required by the SMTP server.

[User name] & [Password] Type the user name and password of the e-mail account you wish to use
This field is required if your SMTP server requires authentication.

[Re-type password] Re-type the password.

[Sender e-mail address] Type the e-mail address of the account you are using to send the e-mail.

[Receiver e-mail address] Type the recipients' e-mail addresses (Up to 3 address can be entered)

[Subject] Subject of the e-mail. Entering a relevant subject will help identify the alarm better.

[Message] Type the text you wish to appear in the e-mail.

Note:

These settings can be obtained from your e-mail service provider. Only POP3 e-mail is supported.

7.5 SD Functions

7.51 Record on Alarm

Clicking SD functions you can manager all the features of microSD card.

Y-CAM Wizard | System | Support | Reboot

Record on alarm setup

Alarm mode: ☒ Arm ☐ Disarm

Record on alarm: ☒ Enable ☐ Disable

Record time: seconds (5-86400)

Record from:

Record file name:

Suffix of file name: ☒ Date time ☐ Sequence number ☐ Date time & record time length

Split time of record file: Seconds (10-86400)

Effective period: ☒ Always ☐ Schedule

Navigation:

- ▶ Camera
- ▶ Network
- ▶ Alarm
- ▶ Alarm Server
- ▼ **SD Functions**
 - Record on Alarm
 - Snapshot on Alarm
 - Continuous Record
 - Snapshot at Interval
 - Browse SD Card
 - Format SD Card
- ▶ Tools

[Alarm Mode] Activate/ Deactivates the motion detection alarm.

[Record Alarm Management] Enable/Disable recording videos on MicroSD upon motion detection.

[Record Time] The number of seconds that the camera should keep recording video when an alarm is triggered. It can be from 5 seconds to 24 hours

[Record From] Select the stream from which it should record. (See section 7.12 of this manual for further details on how to setup the various video streams)

[Record file name] Any name for the video file.

[Suffix of file name] Image file name suffix can be either date and time, a sequence number or Date & time with the record time length

[Effective Period]

[Always] Always trigger the alarm upon motion detection

[Schedule] Trigger the alarm according to the schedule (See section 7.32 of this manual for further details)

Click **Apply** to confirm your settings.

7.53 Snapshot on Alarm.

Y-CAM

Wizard | System | Support | Reboot

Snapshot on alarm setup

Alarm mode: ☒ Arm ☐ Disarm

Snapshot on alarm: ☒ Enable ☐ Disable

Trigger time: seconds (1-20)

Trigger FPS: Images/sec (1-5)

Snapshot from:

Image file name:

Suffix of file name: ☒ Date time ☐ Sequence number

Effective period: ☒ Always ☐ Schedule

Camera

Network

Alarm

Alarm Server

SD Functions

- Record on Alarm
- Snapshot on Alarm
- Continuous Record
- Snapshot at Interval
- Browse SD Card
- Format SD Card

Tools

[Alarm Mode] Activate/ Deactivates the motion detection alarm.

[Snapshot Alarm Management] Enable/Disable saving snapshots on MicroSD upon motion detection.

[Trigger Time] The number of seconds that the camera should keep saving images when an alarm is triggered.

[Trigger FPS] The number of frames per seconds that the camera should keep saving images at when an alarm is triggered.

[Snapshot From] Select the stream from which it should get the snapshot. (See section 7.12 of this manual for further details on how to setup the various video streams)

[Image file name] Any name for the Image.

[Suffix of file name] Image file name suffix can be either date and time or a sequence number.

[Effective Period]

[Always] Always trigger the alarm upon motion detection

[Schedule] Trigger the alarm according to the schedule (See section 7.32 of this manual for further details)

Click **Apply** to confirm your settings.

7.54 Continuous Recording

The screenshot shows the 'Continuous record setup' window of the Y-CAM software. The window has a title bar with the 'Y-CAM' logo and navigation links: 'Wizard | System | Support | Reboot'. The main content area is titled 'Continuous record setup' and contains the following settings:

- Continuous record:** ☒ Enable ☐ Disable
- Record from:**
- Record file name:**
- Suffix of file name:** ☒ Date time ☐ Sequence number ☐ Date time & record time length
- Split time of record file:** Seconds (10-86400)
- Record period time:** ☒ Always ☐ Schedule

At the bottom center is an .

On the right side, there is a sidebar with a tree view of settings categories:

- ▶ Camera
- ▶ Network
- ▶ Alarm
- ▶ Alarm Server
- ▼ SD Functions
 - Record on Alarm
 - Snapshot on Alarm
 - Continuous Record
 - Snapshot at Interval
 - Browse SD Card
 - Format SD Card
- ▶ Tools

[Timing Record Management] Enable/Disable saving video on MicroSD card at periodic intervals

[Record From] Select the stream from which it should record the video. (See section 7.12 of this manual for further details on how to setup the various video streams)

[Record file name] Any name for the video file.

[Suffix of file name] Video file name suffix can be either date & time, a sequence number or date & time with record time length.

[Effective Period]

[Always] Always trigger the alarm upon motion detection

[Schedule] Trigger the alarm according to the schedule (See section 7.32 of this manual for further details)

Click **Apply** to confirm your settings

7.55 Snapshot At Interval

Y-CAM

Wizard | System | Support | Reboot

Snapshot at interval setup

Snapshot at interval: ☒ Enable ☐ Disable

Browse...

Interval time:

0

H

1

M

0

S

0

mS

(MIN: 200 msec. MAX: 24 hour)

Snapshot from:

Primary stream

Image file name:

P

Suffix of file name: ☒ Date time ☐ Sequence number

Effective period: ☒ Always ☐ Schedule

1

Setting

Apply

▶ Camera

▶ Network

▶ Alarm

▶ Alarm Server

▼ SD Functions

Record on Alarm

Snapshot on Alarm

Continuous Record

Snapshot at Interval

Browse SD Card

Format SD Card

▶ Tools

[Snapshot at interval] Enable/Disable saving snapshot on MicroSD card at periodic intervals

[Interval Time] Time interval between snapshots.

[Snapshot From] Select the stream from which it should get the snapshot. (See section 7.12 of this manual for further details on how to setup the various video streams)

[Image file name] Any name for the Image.

[Suffix of file name] Image file name suffix can be either date and time or a sequence number.

[Effective Period]

[Always] Always trigger the alarm upon motion detection

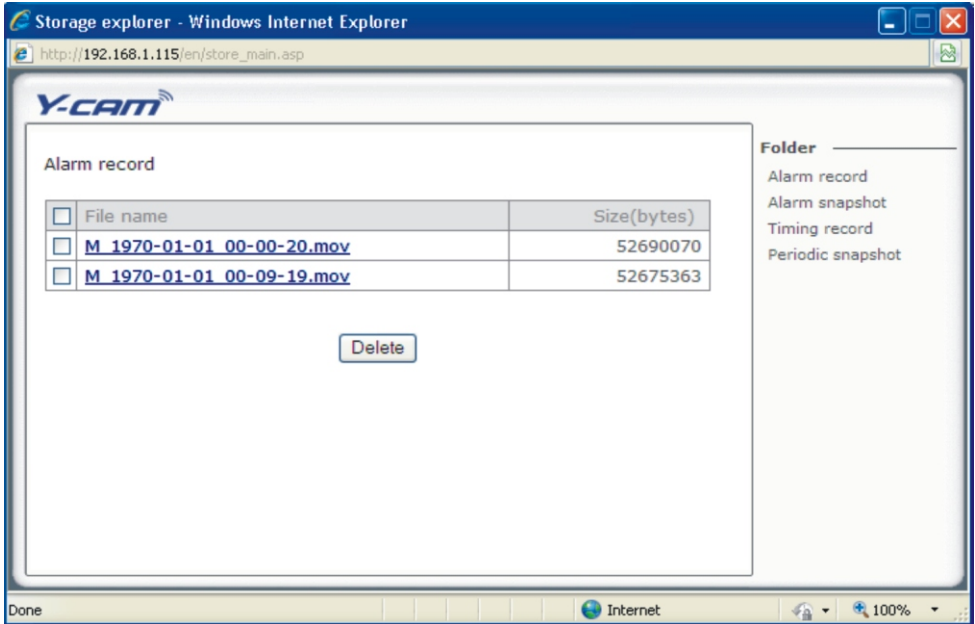
[Schedule] Trigger the alarm according to the schedule (See section 7.32 of this manual for further details)

Click **Apply** to confirm your settings

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7.56 Browse SD card

Clicking on SD explorer will take you to the following screen where you can explore the MicroSD



[Alarm Record] Enables you to view and delete all the videos which were recorded on the MicroSD upon motion detection

[Alarm Snapshot] Enables you to view and delete snapshots which were recorded on the MicroSD upon motion detection.

[Timing Record] Enables you to view and delete all the videos recorded on the MicroSD according to specified schedule.

[Periodic Snapshot] Enables you to view and delete all the snapshots which were recorded on the MicroSD on periodical basis.

7.36 SD Format

Clicking on SD format will take you to the following screen where you can monitor the status of memory card.

Y-CAM

Wizard | System | Support | Reboot

SD card format

SD card	
Status:	Inside
Total:	966 MBytes
Used:	0 MBytes
Available:	966 MBytes

Format

▶ Camera

▶ Network

▶ Alarm

▶ Alarm Server

▼ SD Functions

Record on Alarm

Snapshot on Alarm

Continuous Record

Snapshot at Interval

Browse SD Card

Format SD Card

▶ Tools

[Status] If the MicroSD card is in the slot, it will read as "Inside"

[Total] It shows the size of the MicroSD card.

(Note) The size of the card can't be more than 8 Gig

[Used] It shows the used space on the MicroSD card.

[Available] It shows what free space is available for storage.

[Format] It is used to erase all the data on the microSD card. .

7.52 User Management

The screenshot shows the 'Camera user list' management page. At the top left is the 'Y-CAM' logo. At the top right are navigation links: 'Wizard | System | Support | Reboot'. The main content area is titled 'Camera user list' and contains a table with the following data:

No.	User name	Group
1	admin	Administrators

Below the table is an 'Add' button. Further down is a checkbox labeled 'Allow anonymous access'. At the bottom of the main area is an 'Apply' button. On the right side, there is a sidebar menu with the following items: 'Camera', 'Network', 'Alarm', 'Alarm Server', and 'Tools'. The 'Tools' item is expanded, showing sub-items: 'System Identity', 'User Management', 'Date & Time', 'Backup or Reset', and 'Firmware Upgrade'.

[Add] Up to 64 users (including the admin) can be created

Note:

1. A maximum of 16 users are allowed to access the camera simultaneously.
2. As the number of simultaneously users increase, the overall performance will decrease. This is dependant on the Network bandwidth.

Please tick "**Allow anonymous access**" if you wish to share video with other users, without prompting them for a user name and password. This will allow the user to view live video page, whereas access to the Setting page will be prohibited.

Adding users

1. Click **Add** on the **Camera User List** page.
2. Enter the User name, Password and re-confirm the password then click **Add**

The screenshot shows the 'Add user' form. At the top left is the 'Y-CAM' logo. At the top right are navigation links: 'Wizard | System | Support | Reboot'. The main content area is titled 'Add user' and contains three input fields: 'User name:', 'Password:', and 'Re-type password:'. Below these fields are 'Add' and 'Back' buttons. On the right side, there is a sidebar menu with the following items: 'Camera', 'Network', 'Alarm', 'Alarm Server', and 'Tools'. The 'Tools' item is expanded, showing sub-items: 'System Identity', 'User Management', 'Date & Time', 'Backup or Reset', and 'Firmware Upgrade'.

To edit a user's password, click on the user name then enter the new password for that user twice and click **Save**.

To delete a user, click on the user name then click **Delete**.

7.53 Date & Time

The screenshot shows the 'System time setting' page of a Y-cam device. The interface includes a sidebar on the right with navigation links: Camera, Network, Alarm, Alarm Server, and Tools. The Tools section is expanded, showing links for System Identity, User Management, Date & Time (which is highlighted), Backup or Reset, and Firmware Upgrade. The main content area contains the following settings:

- Current device time:** 16/10/2008 14:00:59. **Time zone:** GMT.
- Proposed device time:** 16/10/2008 14:05:59.
- Select to change the time zone for the device location:** A dropdown menu showing 'GMT+00:00 (Greenwich Mean Time, London, ...)'. There is a small downward arrow icon to the right of the dropdown.
- Daylight saving time:** An unchecked checkbox.
- Date and time format:** Three radio button options: 'yy/mm/dd hh:mm:ss', 'mm/dd/yy hh:mm:ss', and 'dd/mm/yy hh:mm:ss' (which is selected).
- Auto time setting (SNTP):** Two radio button options: 'Enable' and 'Disable' (which is selected).
- Time server:** A text input field containing 'time.nist.gov'. Below the field, an example is given: 'e.g. time.nist.gov;ns.arc.nasa.gov'.
- Apply:** A button at the bottom center of the form.

[Current device time] Internal time of the **Y-cam Black SD**

[Proposed device time] PC system time. On clicking **Apply** the internal time of the **Y-cam Black SD** will be

changed to this time.

[Select to change the time zone for the device location] Choose your time zone.

[Date and Time format] Select the format of the date and time.

[Auto time setting(SNTP)] Enable or disable this function.

[Time server] Type the SNTP server name.

Note:

1. If the SNTP server is not found the Y-cam Black SD's time will be synchronized with the PC time.
2. The Y-cam Black SD has a built-in RTC(Real-time Clock) that keeps track of the time even when power is Disconnected.

Click **Apply** to confirm your settings.

7.54 Backup and Reset

Y-CAM Wizard | System | Support | Reboot

Backup or reset settings

Click **Reset** to erase the camera's configuration and restore the factory defaults. **Reset**

Click **Backup** to save the camera's configuration to a file. **Backup**

Restore the camera's configuration from a previously backed-up file. **Restore**

Browse...

Tools

- System Identity
- User Management
- Date & Time
- Backup or Reset
- Firmware Upgrade

[Reset] Click **Reset** to initialize the **Y-cam Black SD** to default factory setting. All users and settings will be lost, requiring you to reconfigure the camera.

[Backup] Click **Backup** to backup the current configuration of the **Y-cam Black SD** for future reference.

[Browse...] Click **Browse...** to search for a backup configuration you wish to upload to the camera, then click **Restore**.

Note:

Do not turn off the power during the Reset, Backup or Restore functions since this might corrupt the camera's firmware

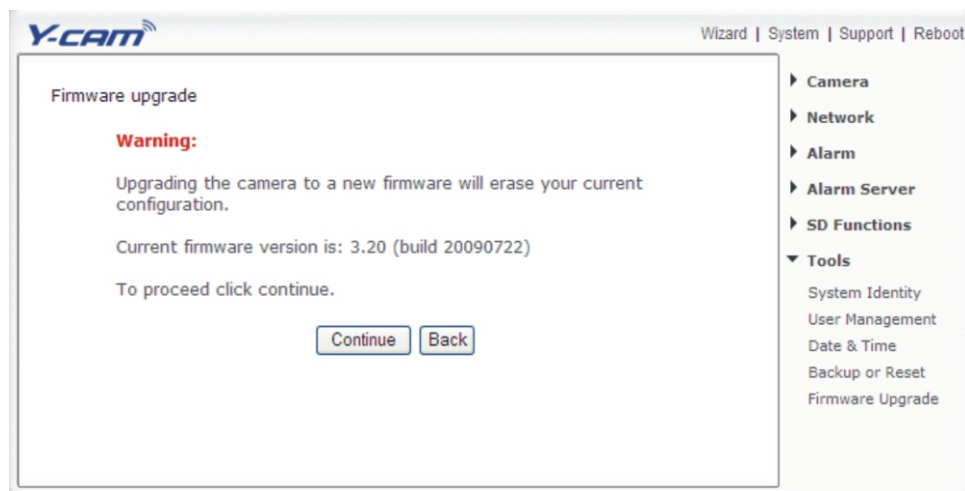
Tip:

The camera can also be reset to the default settings by pressing the reset switch on the side of the camera.

7.55 Firmware Upgrade

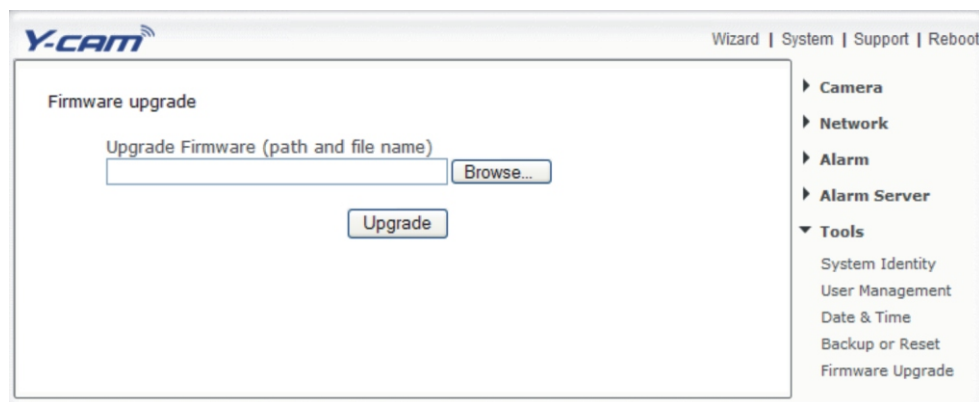
From time to time a new firmware may be released. In order to upgrade your Y-cam Black SD's firmware you first need to download this firmware from the Y-cam's website www.y-cam.com

1. Click **Continue**.



The screenshot shows the Y-cam web interface. At the top left is the Y-cam logo. At the top right are navigation links: Wizard | System | Support | Reboot. The main content area is titled "Firmware upgrade". It contains a "Warning:" section in red text stating: "Upgrading the camera to a new firmware will erase your current configuration." Below this, it says "Current firmware version is: 3.20 (build 20090722)" and "To proceed click continue." At the bottom of the main area are two buttons: "Continue" and "Back". On the right side, there is a sidebar menu with expandable sections: Camera, Network, Alarm, Alarm Server, SD Functions, and Tools. The Tools section is expanded, showing sub-items: System Identity, User Management, Date & Time, Backup or Reset, and Firmware Upgrade.

2. Click **Browse...** to search for the Firmware you just downloaded, and then click **Upgrade**.



The screenshot shows the Y-cam web interface. At the top left is the Y-cam logo. At the top right are navigation links: Wizard | System | Support | Reboot. The main content area is titled "Firmware upgrade". It contains a text input field labeled "Upgrade Firmware (path and file name)" and a "Browse..." button next to it. Below the input field is an "Upgrade" button. On the right side, there is a sidebar menu with expandable sections: Camera, Network, Alarm, Alarm Server, and Tools. The Tools section is expanded, showing sub-items: System Identity, User Management, Date & Time, Backup or Reset, and Firmware Upgrade.

3. Click **Reboot** when the upgrade terminates

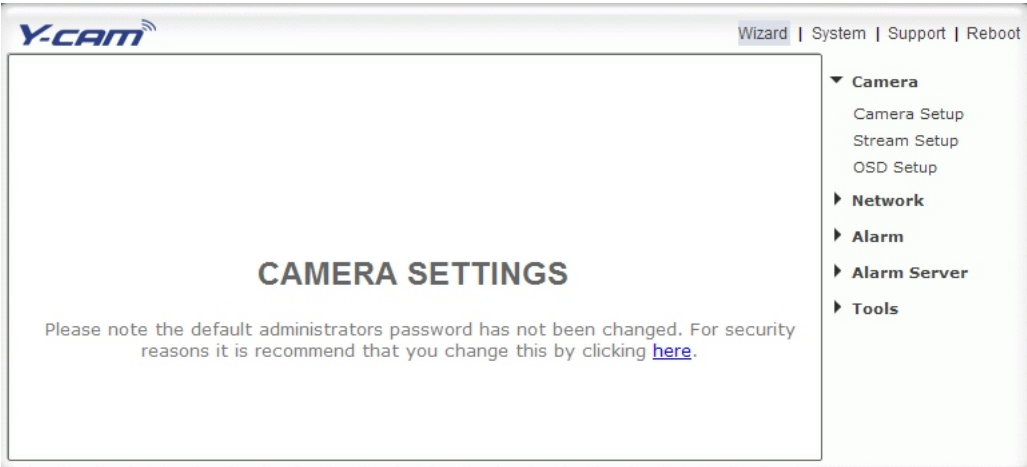
IMPORTANT:

- * Do not unplug or power off the Y-cam Black SD while the upgrade is in progress.

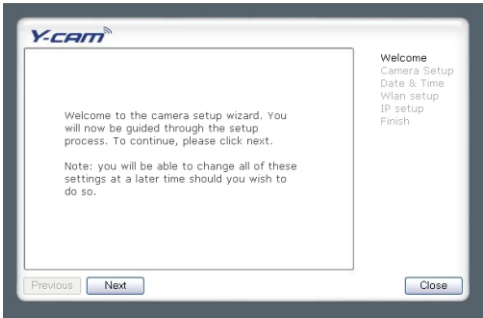
7.6 Main Menu

7.61 Wizard

In order to facilitate the setup of the Y-cam Black SD there is a **Wizard** that helps non technical users setup the camera easily. Click on Wizard at the top of the window to launch the wizard.



The Quick setup interface will pop up. Follow the simple instructions on the screen and enter the required details, clicking next to proceed to the **Next** page.



7.62 System

Click **System** to list the system information about the Y-cam Black SD



Wizard | System | Support | Reboot

System information

System	
Model:	Y-CAM:BLACK
System up time:	0 Days 01:54:56
BIOS/Loader version:	2.1 (build 0001)
Firmware version:	3.20 (build 20090722)
ActiveX Control version:	1,2,3,1
MAC address:	00:0d:f0:5b:10:15 (000DF05B1015)
Wireless	
Status:	No connection
Ethernet	
Status:	connected
Mode:	Static
IP address:	192.168.1.185
Subnet mask:	255.255.255.0
Default gateway:	192.168.1.1
PPPoE	
Status:	No connection
DNS Server	
Primary DNS IP address:	192.168.1.250
Secondary DNS IP address:	192.168.1.1
DDNS	
Status:	Disable
UPNP port forwarding	
Status:	Success
Gateway external IP address:	82.44.126.166
Gateway external port:	8152
Internet URL:	http://82.44.126.166:8152
Internet Connection	
Status:	connected
SD card	
Status:	Inside
Total:	966 MBytes
Used:	0 MBytes
Available:	966 MBytes
Current users	
admin	192.168.1.133

▶ Camera

▶ Network

▼ Alarm

- Motion Detection
- Schedule Setup
- Alarm Management
- Periodic Sending

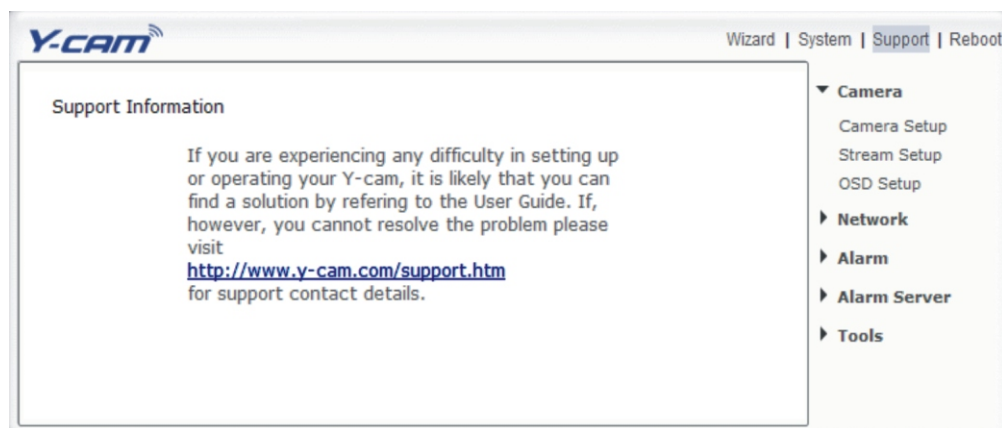
▶ Alarm Server

▶ SD Functions

▶ Tools

7.63 Support

Click **Support** to see the support information



The screenshot shows the Y-CAM web interface with the 'Support' tab selected in the top navigation bar. The main content area is titled 'Support Information' and contains a message about seeking help in the User Guide or visiting the support website. A sidebar on the right lists various configuration categories.

Y-CAM Wizard | System | **Support** | Reboot

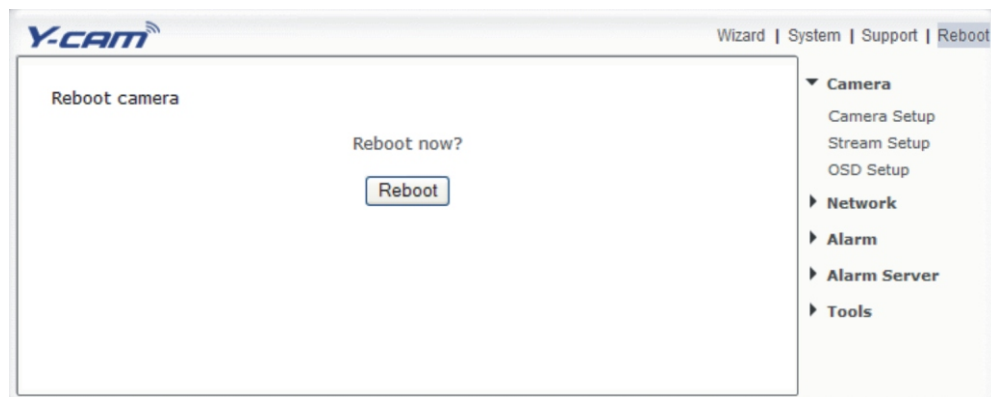
Support Information

If you are experiencing any difficulty in setting up or operating your Y-cam, it is likely that you can find a solution by referring to the User Guide. If, however, you cannot resolve the problem please visit <http://www.y-cam.com/support.htm> for support contact details.

- ▼ **Camera**
 - Camera Setup
 - Stream Setup
 - OSD Setup
- ▶ **Network**
- ▶ **Alarm**
- ▶ **Alarm Server**
- ▶ **Tools**

7.64 Reboot

Click **Reboot** to restart the **Y-cam Black SD**. Rebooting the camera will retain all the settings and configurations.



The screenshot shows the Y-CAM web interface with the 'Reboot' tab selected in the top navigation bar. The main content area is titled 'Reboot camera' and asks the user if they want to reboot now, with a 'Reboot' button provided. A sidebar on the right lists various configuration categories.

Y-CAM Wizard | System | Support | **Reboot**

Reboot camera

Reboot now?

Reboot

- ▼ **Camera**
 - Camera Setup
 - Stream Setup
 - OSD Setup
- ▶ **Network**
- ▶ **Alarm**
- ▶ **Alarm Server**
- ▶ **Tools**

8.0 ADVANCED SETTINGS

8.1 Port Forwarding

Firewall security features built into the router may prevent users from accessing the **Y-cam Black SD** over the Internet. The router connects to the Internet over a series of “ports”. The default ports used by the **Y-cam Black SD** are usually blocked from access over the Internet, therefore, these ports need to be made accessible. This is achieved using the Port Forwarding function on the router. The ports used by the camera must be opened through the router for remote access to your **Y-cam Black SD**. Check your router’s user manual for specific instructions on how to open and route ports on your router.

Important: Some ISPs block access to port 80 and other commonly used Internet ports. Check with your ISP in order to open the appropriate ports. If your ISP does not pass traffic on port 80, you will need to change the camera’s default port number from 80 to a different number such as 8000.

Viewing Your Camera

To access the Y-cam Black SD from a computer on your local network, simply enter the IP Address of the Camera followed by a colon and the camera’s port number. It is not necessary to enter the colon and port number if you are using the camera’s default port 80.

To access the Y-cam Black SD from the internet, type the external IP Address of the router, followed by a colon, and the port number of your camera (e.g., [Http://202.115.122.96:8000](http://202.115.122.96:8000)).

Note: You can check all your settings by clicking on “System” in the top right section of the “Settings” page. (See page 36). In the UPnP section, you will find your external IP address, your external port and the address you need to type in the Internet Browser’s address bar.

Note: If your UPnP gateway is not configured, you can find your external IP address by visiting www.whatismyipaddress.com or www.myipaddress.com

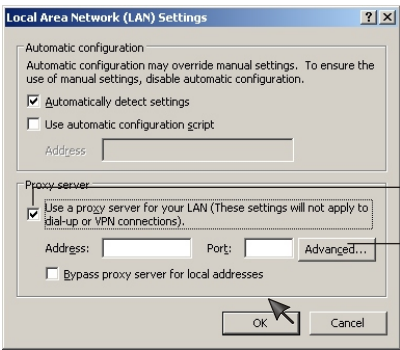
8.2 Proxy Server Setting

A proxy server may prevent you from connecting to the **Y-cam Black SD** in some corporate environments. The web browser can set up the IP address communication without using a proxy server. Consult your ISP or network administrator for further details.

Note:

A proxy server is generally used to maintain security on a network when connected to the internet. The proxy server may cause lack of image quality and delays in refresh intervals. Consult your ISP or network administrator for further details.

- 1. Start **Internet Explorer**.
- 2. Select **[Tools] → [Internet Options...] → [Connections]** tab and click **[LAN Settings]**. Verify that the **Use a proxy server** check box is not checked. When checked, click **[Advanced...]**.

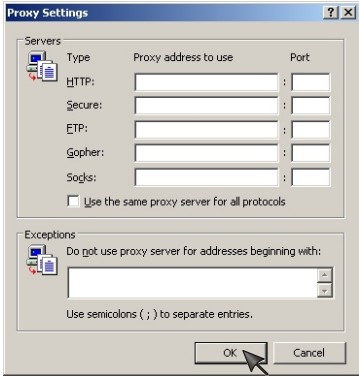


Verify that the check box is not checked

When checked, click **[Advanced...]**

When not checked, click **[Cancel]**. Your proxy server settings should not cause any problems.

- 3. Enter the IP address of your **Y-cam Black SD** into the **Do not use proxy server for addresses beginning with** data field.



- 4. Click **[OK]** on all of the opened windows.

8.3 Resetting The Y-cam Black SD

There are two ways to reset the **Y-cam Black SD** back to its factory defaults:

1. Press the **Reset** button on the side of the camera through the pin hole.
2. Through the camera setup under the heading **Backup or Reset** (see page 45 for details)

9.0 DEFAULT SETTINGS

Camera

Camera Setup	
Image Size	640 x 480
Frame Rate	30
Bit Rate	2048kbps
Frequency	60Hz
Image Revolution	Off
Microphone	Enable
Mic Volume	10
Audio Bit Rate	G. 726 (16kbps)

OSD Setup

OSD	Disabled
Transparent	Enabled
Display	Date & Time

Night Vision Setup

Infrared LED control	Auto
Black and white mode	Auto
Moonlight mode	Off

Network

Wireless Setup	
SSID	Ycam
Mode	Ad-hoc
Encryption	Off
Key Type	ASCII
ID	1
WEP Key	Blank
Ethernet Setup	
IP address	DHCP
Subnet Mask	DHCP
Default Gateway	Blank
Primary DNS IP Address	Blank
Secondary DNS IP Address	Blank
HTTP Port Number	80
PPPoE Setup	
PPPoE Dial-up	Disable
Service Name	Blank
User Name	Blank
Password	Blank
Re-type Password	Blank
DDNS Setup	
Dynamic DNS Status	Disable
DDNS list	Blank
UPnP Setup	
UPnP	Enable
RTSP Setup	
MPEG4 RTSP authentication	Enable
3GPP RTSP authentication	Enable
RTP port range	30000-30100

10.0 SPECIFICATIONS

SPECIFICATIONS	Y-cam Black SD
Camera	
Image device	1/4" CMOS
Pixels	310000
White Balance	Auto
Exposure mode	Auto
Gain	Auto
Viewing angle	Horizontal:60°, Vertical:45.0°
Focal length	f=3.6mm
Aperture	F2.0
Min.Illumination	1.0 Lux (0 Lux in night vision mode)
Infrared LED	30
Night Vision Distance	12m
Network	
Image compression	MPEG-4, MJPEG
Image resolution	640x480(VGA), 320x240(QVGA), 160x120(QQVGA)
Max. frame rate	30fps @640x480
Audio compression	AMR(4.75 -- 12.2Kbps), G.726 (40/32/24/16Kbps)
Built-in microphone	Electret Condenser Microphone
Simultaneous viewers	16
Authentication	ID/Password, Administrator/General User (Up to 64)
Network protocols	TCP,UDP,IP,ARP,ICMP,DHCP,DNS,HTTP,FTP,SMTP,NTP,PPPoE,UPnP,DDNS
Stream type	HTTP, RTSP/RTP/RTCP, 3GPP, ASF
Network connection	Ethernet (10BASE-T/100BASE-TX)
Wireless LAN	
Wireless technology	IEEE802.11b/g
Frequency	2.412-2.462GHz
Transmission speed	54Mbps/22Mbps/11Mbps/5.5Mbps/2Mbps/1Mbps (Auto Switch)
Security	WEP (64/128 bit), WPA-PSK(AES/TKIP), WPA2-PSK(AES/TKIP)
Memory	
SD slot	Micro SD card (16MB - 8GB)
General	
Power requirements	DC 5V
Power consumption	3.75W
Operating temperature	-5 to +45 °C (+22 to +113 °F)
Storage temperature	-20 to +60 °C (-4 to +140 °F)
Operating humidity	20 ~ 80%RH(Non-condensing)
Storage humidity	20 ~ 95%RH(Non-condensing)
Dimensions(W x D x H)	85mm x 85mm x 30mm
Weight	150g(Main Body)
Supplied accessories	AC adaptor (x1), CD-ROM(x1 setup program and user manual), Stand(x1)
PC system requirements	
Operating system	Windows 2000/XP/VISTA
Processor	Intel Pentium III, 1GHz or Higher
Memory	256MB RAM Minimum
Web browser	Microsoft Internet Explorer Version 5.5 or Later

*** Specifications subject to change without notice.**

11.0 TROUBLE SHOOTING

If the Network Camera is not working properly, these suggestions might help you identify the problem. If the problem persists check the support pages on www.y-cam.com

Problem	Cause and Remedy
Forgot the IP address of the Y-cam Black SD.	1. Use Camera Setup. 2. Use UPNP (only for XP OS) 3. PPPoE IP Notification can send e-mail to your mailbox 4. Reset your Network to default IP address
Forgot the password to access the setting interface.	Initialize the network camera by pressing the RESET button. Note that all configuration settings will be lost.
Wireless communication doesn't work.	1. Signal strength is weak. Relocate the camera or remove the obstacle around it. 2. Make sure the SSID and Encryption settings are identical. 3. Check for any interference from other equipment.
The picture viewing interface does not appear.	1. Check that your internet explorer settings allow you to download and install ActiveX controls. 2. Maximum 16 users are allowed to access the camera simultaneously through network. 3. Network traffic may prevent the viewing interface from appearing quickly. Wait for a while.
The color of the picture is strange.	Confirm the color setting of PC is 16 bits or more.
Unreadable characters are displayed.	Set the Encoding or the Character Set of the selected language on the web browser.

12.0 GLOSSARY OF TERMS

1. **Network Camera:** A stand-alone device which allows users to view live, full motion video from anywhere on a computer network, even over the Internet, using a standard web browser.
2. **JPEG:** A standard image format, used widely for photographs, also known as JPG.
3. **IEEE 802.11b/g:** The specifications developed by the IEEE for wireless network technology. It provides 11 Mbps transmission in the 2.4GHz band usage.
4. **WEP: Wireless Equivalent Privacy.** A security protocol for wireless network defined in the IEEE 802.11b/g standard. WEP aims to provide security by encrypting data over radio waves so that it is protected as it is transmitted from one end point to another.
5. **Adhoc Mode:** A wireless network system in which devices communicate directly with each other, without the use of a wireless router.
6. **Infrastructure Mode:** One of the wireless network system in which devices communicate with each other by first going through the wireless router.
7. **IP Address:** The unique 32 bit number assigned to each computer connected to the Internet. IP numbers are used by the TCP/IP protocol to route packets of data to their destinations.
8. **TCP/IP:** The collection of "protocols" underlying the functioning of the Internet. Each computer connected to the Internet is identified by a unique IP Address.
9. **SMTP:** Simple Mail Transfer Protocol.
10. **FTP:** File Transfer Protocol. Network cameras equipped with an embedded operating system, such as Linux, can use FTP to send images to a website.
11. **DHCP:** Dynamic Host Configuration Protocol is a set of rules used by communications devices such as a computer, router or network adapter to allow the device to request and obtain an IP address from a server which has a list of addresses available for assignment.
12. **UPnP:** Universal Plug and Play is an architecture for pervasive peer-to-peer network connectivity of intelligent appliances and wireless devices.
13. **DDNS:** DDNS is a method of keeping a domain name linked to a dynamic IP address with your Network Camera. You can set up your DDNS service and the device will automatically update your DDNS server each time it alter a different IP address.
14. **Time server:** A time server consists of a computer networking device that reads the actual time from a reference clock and distributes this information to its clients using a computer network.

EU Environmental Protection

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.



